STATE OF TENNESSEE

Office of the Attorney General RECEIVED



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Reply to: Consumer Advocate and Protection Division

Post Office Box 20207 Nashville, TN 37202

June 23, 2003

Honorable Sara Kyle Chairman Tennessee Regulatory Authority 460 James Robertson Parkway Nashville, Tennessee 37243

ANDY D. BENNETT
CHIEF DEPUTY ATTORNEY GENERAL

LUCY HONEY HAYNES

ASSOCIATE CHIEF DEPUTY

ATTORNEY GENERAL

RE: Rebuttal Testimony of Steve Brown In RE: Petition of Tennessee American Water Company to Change and Increase Certain Rates and Charges So As to Permit it to Earn a Fair and Adequate Rate of Return on Its Property Used and Useful in Furnishing Water Service to Its Customers Docket No. 03-00118

Dear Chairman Kyle:

Enclosed is an original and thirteen copies of the Rebuttal Testimony of Steve Brown from the Consumer Advocate and Protection Division of the Office of the Attorney General in the above noted docket. Kindly file same in this docket. We are forwarding copies of same to all parties of record. If you have any questions, please feel free to contact me at (615) 532-3382. Thank you.

Sincerely,

VANCE BROEMEL
Assistant Attorney General

Enclosures

cc:

All Parties of Record

65664

1		Rebuttal Testimony of Steve Brown
2		
3		
4 5		
6 7	Q_1.	Please state your name.
8	A_1.	Steve Brown.
10 11	Q_2.	Are you the same "Steve Brown" who filed direct testimony in this docket?
12 13	A_2.	Yes.
14 15 16	Q_3.	What were you asked to do with respect to this particular rebuttal testimony you are providing?
17 18 19 20 21 22 23 24	A_3.	I was asked to provide rebuttal testimony regarding the direct testimony of witnesses testifying on behalf of the Chattanooga Manufacturers Association (CMA) with regard to their assertions that the Tennessee American's residential class is being subsidized by the other classes of customers.
25 26 27 28 29 30 31		For example, Mr. Randy Crowder, in his direct testimony at the bottom page 6, states: "Any increase, simply put, should result in the customer base causing the increase to pay its fair share for the provision of services to that type of customer."
32 33 34 35	Q_4.	According to Tennessee American's cost of service study, which class is not paying its fair share of cost?
36 37 38	A_4.	According to TnAm's study, filed as Schedule A in Mr. Herbert's direct testimony, the

residential class creates 48.9% of the costs but contributes only 41% of the revenue, and the residential class is the only group whose company-allocated costs exceed the revenue contribution.

Does CMA consider TnAm's study to be reasonable?

Q_5.

A 5.

Yes. CMA considers TnAm's study to be reasonable according to Mr. Mike Gorman, who states in his direct testimony at page 2 line 16, "I find TAWC's cost of service to be generally reasonable." Mr. Gorman suggests that the residential class bear the entire burden of any rate increase, when he states at page 10 line, line 16 of his testimony: "To the greatest extent possible, I recommend only the classes whose current rates do not meet TAWC's full cost of service receive a rate increase in this proceeding."

Q 6.

A 6.

Do you agree with Mr. Gorman's opinion, that the Company's cost of service is generally reasonable?

No, I disagree with Mr. Gorman because my opinion is that the Company's cost of service is not reasonable. Therefore, Mr. Gorman's opinion is a mistake, and to prove that, I have prepared Rebuttal Schedule 1, which is attached to my Rebuttal Testimony. Schedule 1, as well as the tables appearing within the body of my rebuttal testimony, prove that that Company allocates approximately \$7.5 million to the revenue classes on the basis of two methods the Company calls "Maximum Day Extra Capacity" and "Maximum Hour Extra Capacity." However, these two methods are wholly arbitrary because the Company has

provided no evidence substantiating the numbers which the Company uses for each revenue class's "Maximum Day Extra Capacity" and "Maximum Hour Extra Capacity." Since nearly one-quarter of the Company's costs are allocated on a wholly arbitrary basis, TnAm's cost study is not reasonable and therefore, Mr. Gorman's opinion is mistaken.

The very last page of Schedule 1 shows that the Company's cost study heavily depends on the independent or "stand alone" factors 1, 2, 3 and 4, which together account for nearly two-thirds of the allocations. Factors 2, 3 and 4 account for over 57% of the allocations, and these three factors also are heavily influenced by "Maximum Day Extra Capacity" and "Maximum Hour Extra Capacity."

Q_7.

A 7.

Does the Company's cost of service study explicitly highlight the importance of "Maximum Day Extra Capacity" and "Maximum Hour Extra Capacity?"

No, the importance of those factors is not explicitly shown in Company's cost of service study. The Company chose to express its cost study in terms of 21 allocation factors, but at least eight of those are ultimately derived from the "stand alone" factors. Here is a summary Company's study displayed in order from the largest to the smallest allocation factor:

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But when the study is expressed in terms of the independent, "stand alone" factors the results are:

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1 How does the Company describe the term "Maximum 2 Q 8. Day Extra Capacity?" 3 4 The Company's witness on the cost of service, 5 A 8. Mr. Herbert, describes "Maximum Day Extra 6 Capacity" in his Schedule C, Page 2 of 24: "The 7 weighting of the factors is based on a review of 8 the maximum day ratio of 1.40, based on a review 9 of maximum day ratios experienced during the 10 period 1995 through 2001." 11 12 Did Mr. Herbert review the maximum day ratios of 13 Q 9. TnAm's customer classes? 14 15 No. Mr. Herbert did not review the maximum day 16 A 9. ratios of TnAm's customer classes. 17 18 Whose maximum day ratios did Mr. Herbert review? 19 Q 10. 20 Mr. Herbert reviewed the maximum day ratios of 21 A 10.

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Mr. Herbert reviewed the maximum day ratios of out-of-state water companies. In the response to discovery request 12 in CAPD's second round of discovery, the Company responded: "The analysis used to develop the judgment for the class demand factors was not an arithmetic process or analysis. Rather, results of demand studies prepared for Pennsylvania-American Water Company, West-Virginia American Water Company and Philadelphia Suburban Water Company were considered along with observations of the Companies' service areas..."

Q_11. Has the Company placed into the record the demand studies of Pennsylvania-American Water Company, West-Virginia American Water Company and Philadelphia Suburban Water Company?

1 A_11.	No. The Company has not placed those demand studies into the record.
3 4 Q_12. 5	Are those out-of-state studies available on the internet?
6 7 A_12. 8	No, those out-of-state studies are not available on the internet.
9 10 Q_13. 11	Has the Company made those out-of-state studies available for CAPD's review?
12 13 A_13. 14	No, the Company has not made those out-of-state studies available for CAPD's review.
15 16 Q_14. 17 18	What is your opinion regarding the use of "judgment" to allocate costs among revenue classes?
19 20 A_14. 21 22 23 24 25 26	My opinion is that "judgment" is a reasonable procedure if it can be verified by reasonably duplicating the process which led to the "judgment." But the process may involve situations where two different people might make different judgments when faced with the same facts.
27 28 29 30 31 32 33	For example, according to the Company's response to CAPD's discovery request 69, in CAPD's first round of requests, nearly 20% of the bills rendered to consumers in the test year were estimated rather than being the result of meter readings, thus there were only 700,000 meter readings in the twelve months ending July 2002.
34 35 36 37 38	But when I reviewed factor 13 in the cost of service study, the total number of meter readings was shown as nearly 840,000 in the same twelve month period.

 Apparently the Company's judgment is that a large portion of meter readings can be skipped without changing how meter reading costs are allocated. I don't agree with that assessment. If it were up to me, I would change the allocations derived from factor 13 because I would assume that nearly all the estimated bills were from the residential class. Also, I would protect the residential class from bearing an unduly large portion of customer accounting costs, which are allocated according to factor 12, the number of bills rendered. Customer accounting costs are typically composed of various overhead expenses as well as direct expense.

Factor 12 is really nothing more than the arbitrary allocation of overheads on the basis of the number of bill rendered, which would change only slightly from year to year, especially if "balanced billing" is a major way for consumers to pay bills. Instead, I would allocate customer accounting costs on the number of meters read, which would result in overhead costs tracking the effort involved in getting consumer's actual usage of the water system.

Continuing with this example, I would not allocate costs on the basis of the maximum day or maximum hour because those measures are not necessarily related to capacity requirements the revenue class imposes on the water system. As shown in Mr. Herbert's testimony, Schedule C, page 2, the sum of all class's average daily consumption is 40,669,000 cubic feet and sum of all class's maximum day consumption is 33,191,

900 cubic feet. These two figures added together equal about 74 million. However, according to the Company's response to CAPD's discovery request 64, the water system maximum day usage was about 51.5 million cubic feet on August 2, 2002. Because the sum of the revenue classes average and maximum demands equal 74 million, a figure much larger than the system peak of 51.5, it is clear that each class's maximum day consumption did not occur on August 2, 2002, the time of the overall system's maximum day usage.

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The residential class maximum day could have been on Thanksgiving day, or New Year's day, or at any other time when there was ample capacity. Therefore, if it were up to me I would not allocate costs on the basis of a maximum day, instead I would allocate costs on the basis of the class's contribution to system's maximum day on August 2, 2002. Unfortunately, I do not have any load information on the classes and neither does the Company. The Company responded to CAPD's discovery request 63: "The date of the maximum usage for each customer class during the test year is not known." The Company responded to CAPD's discovery request 64: "The contribution of each customer class to the peak day volume is not known." Thus, there is no way to verify the accuracy of the demand factors in the Company's cost study, or the judgment involved. Therefore, in my opinion the demand factors used in the cost study are arbitrary and Mr. Gorman's opinion, that the study is

reasonable, is wrong.

Are those out-of-state studies the basis for Mr. 1 Q 15. Herbert's derivation of the figures he uses as 2 the "Maximum Hour Extra Capacity?" 3

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A 15.

Q 16.

Yes, apparently. Mr. Herbert describes "Maximum Hour Extra Capacity" in his Schedule C, Page 6 of 24: "The weighting of the factors is based on the maximum hour ratio of 1.80 and the system demand for fire protection..." That definition appears four pages after Page 2 of Schedule C, where Mr. Herbert describes his "review of maximum day ratios experienced during the period 1995 through 2001." Therefore, it is reasonable to believe that his "maximum hour" ratios are based on the same demand studies.

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In light of Mr. Herbert's reliance on out-ofstate demand studies, what is your opinion of Mr. Gorman's proposal to allocate the EPB's Chattanooga's general power rate on the basis of the "customers' maximum hour demand for water?"

21 22

In my opinion, given the company's responses to 23 A 16. CAPD's discovery requests, Mr. Gorman is 24 allocating power costs in Chattanooga on the 25 basis of capacity data in Pennsylvania and West 26 Virginia, none of which has been placed into the 27 record. Therefore, my opinion is that Mr. 28 Gorman's proposal be disregarded. 29

30

What other evidence supports your opinion that 31 Q 17. Mr. Gorman's proposal be disregarded? 32

33

Mr. Gorman's proposal is wholly dependent on the 34 A 17. correct measurement of the "customers' maximum 35 hour demand for water," but since there is no 36 accurate or verifiable measurement of that 37

1 2		demand, Mr. Gorman's proposal should be disregarded.
3 4 5	Q_18.	In your opinion, is the Company's cost of service study a reasonable basis for Mr.
6		Gorman's proposal, that "To the greatest extent
7		possible only the classes whose current rates do
8		not meet TAWC's full cost of service receive a
9		rate increase in this proceeding?"
10		
11	A_18.	No. In my opinion the Company's cost study is
12		not a reasonable basis for Mr. Gorman's
13		proposal. My opinion is that Mr. Gorman's
14		proposal be disregarded.
15		
16	Q_19.	Was CAPD able to compare the cost study to any
17		previous studies?
18		No, CAPD was unable to make such a comparison.
19 20	A_19.	According to the Company's response to the City
21		of Chattanooga's discovery request Number 1 in
22		the City's second set of discovery requests, the
23		Company's last study was performed over ten
24		years ago. The Company did not place that study
25		in this case's record.
26		
27	Q 20.	What is your opinion regarding the CMA's
28		suggestion that residential customers are being
29		subsidized by the other customer classes?
30		
31	A_20.	My opinion is that there is no evidence
32		supporting CMA's suggestion that residential
33		customers are subsidized by other classes.
34		
35	Q_21.	Does this conclude your testimony?
36		
37	A_21.	Yes. It concludes my testimony at this time.

BEFORE THE TENNESSEE REGULATORY AUTHORITY AT NASHVILLE, TENNESSEE

IN RE: PETITION OF TENNESSEE-AM WATER COMPANY FOR APPROVAL O IN RATES AND CHARGES	,
	,
AFI	FIDAVIT
STATE OF TENNESSEE)	
COUNTY OF DAVIDSON)	
State and County aforesaid, personally came being by me first duly sworn deposed and sai	duly commissioned and qualified in and for the and appeared, Seven N. Brown, d that: f of the Consumer Advocate and Protection Division
	nd if present before the Authority and duly sworn,
	Sen Bu
	STEVE N. BROWN
Sworn to and subscribed before me this 3rd day of June, 2003.	
NOTARY PUBLIC	
My commission expires: Oct 25, 200	B

66301

Docket No. 03-00118_
Rebuttal Exhibit CAPD-SB____
Rebuttal Testimony_____
Schedule 1____
Page 1 of 25____

Cost of Service Study - As Presented in Mr. Herbert's Direct Testimony

1,276,293	1,276			SUBTOTAL
		119	2	6504 Wt maint Trasnportation
		15,946	2	6354 Other Wt Maint Contract Services
		26,787	2	6204 Or Mn Wt Struct & Imp Mat
		51,775	2	6753 Misc Wt Expenses - Current
		59,612	2	6753 General Wt Expenses
		130,151	:	6753 Wawste Disposal Exp (Cur)
		339	2	6503 Wt Oper Transportation
		16,998	2	6413 Wt Rents
		51,349	2	6353 Wt Operation Superv & Eng
		14,802	2	6203 Misc Wt Expenses - Current
		740,531	_	6183 General Chemicals
		36	2	6013 General Wt Labor
		167,848	2	6013 Wt Operation Superv & Eng
5,101	2,545,101			SUBTOTAL
		2,685	6	6751 Misc. Pumping Exp. Electric
		40	6	6501 SS & PUmp Transportation
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		1,343		6161 Fuel for Power Production
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		1,375,606		6151 Purch Power PU
		807,716	o	6011 Labor Oper PU
		182,560	o	6011 Gen. Sup & Eng Lab Oper PU
126,201	→ 120			SUBTOTAL
		108,402	2	6202 Structures & Improvements
,		17,561	_	6101 Purchased Water
		234	2	6011 Operating Expense
		4	2	6011 Operating Labor
ubTotals	SubT	Amount	Factor	Account Description
Page 1 of	Oct I City	ינים שוויים ביים	- IVII ICIDO	Cost of Octation Orday The Loop live in

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Cost of Service Study - As Presented in Mr. Herbert's Direct Testimony

6017 Contracts & Orders labor 6017 Billing & Accounting Salaries 6047 Employee Benefits Ca	6017 Meter Reading Labor	6756 Or Mn Meters Mat	6756 Maps and Records Expenses	6506 Td Maint Transportation	6356 Other T&D Maint Contract Services		Q	6016 Or Mn Hydrants Lab	6016 Or Mn Meters Lab	6016 Or Mn Services Lab	6016 Or Mn T&D Mains Lab	6016 Or Mn T&D Supr & Eng			6755 T&D Lines Expense	6505 Td Oper Transporation	6415 T&D Rents	6355 Other T & D Oper Contract Services	6205 Misc T & D Expenses- Current	6155 Storage Facilities Expense	6015 Maps and Records Labor	6015 Misc Meter Labor	6015 Storage Facilities Labor	6015 T & d Ops Super eng	Account Description	Cost of Service Study - As Freseries
12 12 12	13	10	9	9	es 9	7	9	21	10	<u>-1</u>	7	9	&	10	7	&	&	ces 7	7	51	7	10	. .	8	Factor	COULT INIT I ICIDOIL
290,051 22,843 200	448,685	1,726	1,075	52,692	642	539,714	906	72,167	63,667	248,823	413,068	113,357	97,455	5,099	5,594	1,278	1,648	135,576	26,861	165	477,519	553,258	114	114,014	Amount	0 01000 100
	2,920,410	3 036 440																							SubTotals	Zuillolly Fage

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6598 Insurance Other 6608 Advertising Exp	6588 Workme	6578 General Liability	6508 Ag Tran	6428 Adm & (6358 Contract	6348 Manage	6348 Manage	6348 Manage	6338 Contract	6328 Contract	6208 Or Mn G	6048 Employe	6018 Adm & C	SUBTOTAL	6757 Misc Op	6757 Misc Cus	6757 Cust Acc	6757 Cust Acc	6757 Billing &	6757 Collectin	6757 Meter Re	6707 Uncollec	6507 Ca Trans	6427 Ca Rents	- 1	6327 Ca Contr	6207 Misc Ca	Account Description	000000000000000000000000000000000000000
ng Exp	6588 Workmens Comp Premium Exp	Liability	Ag Transportation	Adm & General Rents	Contract Services - Other	Management Fees - Administration	Management Fees - Cust. Billing/Serv	6348 Management Fees - Water Quality	Contract Services - Legal	Contract Services - Auditing	Or Mn General Ag Plant	Employee Pensions & Benefits	Adm & General Salaries	TAL	Misc Oper Ca Cust Serv	Misc Cust Acctng Expenses	Cust Acctg-Billing/Postage	Cust Acctg - Billing/Telephone	Billing & Acctg-Computer	Collecting Expenses	Meter Reading Expenses	Uncollectible Accounts	Ca Transportation		Other Ca Contract Services	Ca Contract Services	Misc Ca Expenses - Current	tion	
14	15	14	14	14	14		12		14	14	14	15	14		12	12	12	12	12	12	13	12	12	12	12	12	12	Factor	
203,470 97,592	130,546	375,670	251,198	23,408	14,221	1,767,276	617,000	123,000	45,557	20,186	1,224	2,048,940	1,090,032		117	-439	261,304	1,023	106,289	40,940	1,599	280,644	3,645	675	106,671	814	24,594	Amount	
			à											▶ 1,589,655														SubTotals	

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Account 303.99 Comprehensive Planning Study 304.53 Miscellaneous Structures 304.22 Lookout Mtn 304.22 Pumping Structures 311.22 Electric Pumping Equipment 304.22 Lakeview Tariff 320.31 Water Treatment Equipment 304.32 Water Treatment Structures - Painting 304.31 Water Treatment Structures 311.23 Deisel PUmping Equipment 311.22 Lakeview Tariff 311.22 Lookout Mtn 320.33 Granular Activated Carbon 306.2 Lakes, Rivers, & Other Intakes 310.2 Power Generation Equipment 6758 Expenses of Employees 6668 Regulatory Commission Expenes 6758 Or Mn A&G Struc & Imp Mat 6758 Research & Dev - Service Co 6758 Misc Office Expenses 6758 Miscellaneous General Exp 6758 Injuries & Damages Exp 303 Land & Land Rights 339 Other P/E SS 303 Land & Land Rights Other Pumping Equipment Description SUBTOTAL -15 20 20 6 19 Amount 520,510 215,470 22,417 522,828 170,079 21,392 83,000 11,223 90,500 21,609 81,026 9,569 77,972 2,350 5,937 7,644 1,490 497 648 203 Sub lotals 7,683,829

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Cost of Service Study - As Presented in Mr. Herbert's Direct Testimony SubTotals

340.57 Computer & Periph Ohter	340.56 Computer & Periph Personal	340.53 Computer & Peripheral Equipment		304.52 Stores, Shop, & Garage Structures	304.51 Office Structures	303 Land & Land Rights	335.4 Hydrants	334.45 Meter Installations	334.44 Meters - Metal Case/New Style	334.43 Meters-Plastic Case	334.42 Meters-Metal Case/Old Style	334.41 Meters	333.4 Services	331.43 T&D Mains - Mains (12" or More)	331.45 T&D Mains - Mains (10" - 16")	331.42 T&D Mains - Mains (6" - 10")		331.41 T&D Mains - Mains (4" or less)	331.4 T&D Mains not Classified	330.43 Elevated Tanks & Standpipes	330.42 Lookout Mtn	330.42 T&D Reservoirs & Standpipes	330.41 Lakeview Tariff	330.41 Lookout Mtn	330.41 T&D Reservoirs & Standpipes	304.4 T&D Structures	303 Land & Land Rights	Account Description F
14	14	14	14	14	14	14	21	10	10	10	10	10		ω	ω	4	4	4	4	Çī	19	ÇJ	20	19	Ŋ	7	7	Factor
13,375	193,468	361,106	14,169	14,868	6,031	0	127,499	103,942	1,773	14,064	0	23,742	321,036	285,312	19,087	642,041	5,125	60,866	43,103	2,922	4,096	108,064	821	3,484	82,842	17,642	0	Amount
																												2

Cost of Service Study - As Presented in Mr. Herbert's Direct Testimony

409 Federal and State Income Taxes	685 Gross Receipts Tax	685 Filing Fee	685 PSC Fee	685 Franchise Taxes	685 SUTA Oper AG	685 FICA Oper AG	685 FUTA Oper AG	685 Property Taxes	SUBTOTAL	681 Amort of Capital Leases	681 Amort of CIAC	SUBTOTAL	347.51 Miscellaneous Structures	346.53 Communication Equipment - Telephone	346.51 Communication Equipment	345.5 Power Operated Equipment	344.5 Laboratory Equipment	343.5 Tools, Shop, & Garage Equipment	342.5 Stores Equipment	341.55 Transportation-Other	341.54 Automobiles	341.53 Heavy Trucks	341.52 Light Trucks	340.54 Other Office Equipment	340.59 Computer Software Other	340.58 Computer Software Personal	340.55 Computer Software	Account Description	
17	18	18	18	18	5	15	15	16		14	4		14	(14	14	14	2	14	14	14	14	14	14	14	14	14	14	Factor	
2,773,308	414,297	150	56,538	251,047	278	375,600	5,557	2,660,657		106,033	-107,357		8,094	26,281	20,791	20,754	37,080	30,089	2,161	248	17,264	69,654	104,282	5,584	28,445	51,040	166,850	Amount	
V 0,104,124	3 76/ 10/								4,121,753			4,123,077																Sub lotals)

GRAND TOTAL	Op Income Other Revs Billing Services	Cost of Service Study - A Account Description
	17 18 12	Cost of Service Study - As Presented in Mr. Herbert's Direct Testimony unt Description Factor Amount SubT
33,151,095	7,469,489 -818,522 -306,554	rt's Direct Te Amount
33,151,095 33,151,095		stimony SubTotals

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COS Rv Allocation Factors - In Ascending Order of Factor

OCT. OF VIGIN HOUSE CO.	30/ 30 Water Treatment Structures - Painting 2	6013 Wt Operation Superv & Eng 2	6202 Structures & Improvements 2	304.31 Water Treatment Structures 2	6753 General Wt Expenses	6753 Misc Wt Expenses - Current	6353 Wt Operation Superv & Eng	344.5 Laboratory Equipment2	6204 Or Mn Wt Struct & Imp Mat	304.53 Miscellaneous Structures	6413 Wt Rents	6354 Other Wt Maint Contract Services	6203 Misc Wt Expenses - Current	306.2 Lakes, Rivers, & Other Intakes	339 Other P/E SS	6503 Wt Oper Transportation	6011 Operating Expense	6504 Wt maint Trasnportation	6013 General Wt Labor		320.33 Granular Activated Carbon	303 Land & Land Rights	303 Land & Land Rights	6151 Purch Power PU	als 1	6753 Wawste Disposal Exp (Cur)	Quality	.		6161 Fuel for Power Production
	170,079	167,848	108,402	17,972	27,070	50,770	51,048	57,000	25,707	800,12	74 600	15,940	14,802	4,009	5 505	E 0.08	220)	110	ન ન	<u> </u>	o c		1,3/3,000	4 275 606	740 531	120,000	123,000	17 561	-
																								2,300,132	288 102					

Account Description COS By Allocation Factors - In Ascending Order of Factor scription

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	311.23 Deisel PUmping Expenses - Curre 311.23 Deisel PUmping Equipment 6751 Misc. Pumping Exp. Electric 310.2 Power Generation Equipment 304.22 Pumping Structures 311.22 Electric Pumping Equipment 6011 Gen. Sup & Eng Lab Oper PU 6011 Labor Oper PU	330.43 Elevated Tanks & Standpipes 330.41 T&D Reservoirs & Standpipes 330.42 T&D Reservoirs & Standpipes 6501 SS & PUmp Transportation 311.27 Other Pumping Equipment			320.31 Water Treatment Equipment
777776	, , , , , , , , , , , , , , , , , , , ,	ග ගගගග	444707	λωω4	ractor
807,716 0 5,594 17,642 26,861 135,576 413,068	643 2,350 2,685 7,644 71,094 90,500 182,560	165 2,922 82,842 108,064 40 203	5,125 43,103 60,866 642,041 114	522,828 19,087 285,312 -107,357	Amount
1,165,435		194,107	643,778	1,353,893 304,399	SubTotals

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		6047 Employee Benefits Ca	6757 Misc Cust Acctng Expenses	Billing Services	6016 Or Mn Services Lab	6015 Misc Meter Labor	6016 Or Mn Meters Lab			6755 Misc Meter Expenses		6756 Or Mn Meters Mat			6506 Td Maint Transportation	6756 Mans and Records Exposes	6356 Other T&D Maint Contract Services		6755 Misc T&D Expenses - Current	6415 T&D Rents	6505 Td Oper Transporation		Mans and Records I	COS By Allocation Factors - In Ascending Order of Facto
٠	12 12	12 12	12	<u> </u>	<u> </u>	10	10	10	10 0	<u> </u>	<u> </u>	<u> </u>	5 «	.	တ	9	9	∞ (∞ (∞ α	» ~	1 ~	Factor	Ascending
	675 814 1,023	117 200	-306,554 -439	321,036	553,258 248,823	103,942	63,667	14,004 23,742	3,099 14,064	F,//3	1,726	7 700	113,357	52,692	1,075	906	642	114 014	07 155	1,2/8	539,/14	477,519	Amount	Order of Facto
				569,859	767,271								168,672				414,090	344 305			1,615,974		SubTotals	<u> </u>
																			,					Rebuttal Testimony_ Schedule 1 Page 10 of 25

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345.5 Power Operated Equipment 346.51 Communication Equipment	6328 Contract Society Auditi				340.57 Computer & Perinh Ohter	6758 Injuries & Democratic				6208 Or Mn General Ag Plant	6/58 Research & Dev - Service Co	341.55 Transportation-Other		6017 Meter Reading Labor	Meter Reading Expenses		6017 Contracts & Orders labor	_		6357 Other Ca Contract Services				6017 Billing & Accounting Salaries			- 1
1 1 1 1 4 4	14	14	<u>1</u> 4	<u> </u>	14	14	14	14.	1 . 4 .	14	14	14	14	1 3	1 3 1	12 i	12	12	12 F	3 i	12	12	12	12	12	Factor	Vacelidilic
20,186 20,754 20,791	17,264	14.868	14,169 14,221	13,375	11,223	8,094	6 031	۲, IOI	7 161	1 22/	497	248		448 685	1 500	617,000	290,074	280 64 <i>4</i>	261 30 <i>1</i>	100,209	106.380	40 940	24 594	22 843	3.645	Amount	Ascending Order of Factor
													430,284	AEO 004	1,449,81/	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										SubTotal	or Page 1

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	685 Property Taxes						685 SUTA Oper AG	6348 Management Eggs Administration		6758 Miscellaneous General Exp		340.53 Computer & Peripheral Equipment	6508 Ag Transportation	6758 Misc Office Expenses	6598 Insurance Other	SFSS Computer & Periph Personal			681 Amort of Control Control				341.53 Heavy Trucks	340.58 Computer Software Personal					346 53 Communication F			
0	15	15	15	15	15	15	i 4	14	14	14	4	<u> </u>	1 - 1 1	1 .	14	14	14	14	14	14	<u>.</u> 4	<u> </u>	z †	<u>.</u> _	14 .	14	14	14	14	14	Factor	Ascending
2,660,657	2,048,940	375,600	130,546	22,417	5,557	278	1,767,276	1,090,032	520,510	375,670	361,106	251,198	254.400	203,470	202,120	193 468	166,850	106,033	104,282	97,592	81,026	69,654	51,040	40,007	16 667	30 080	28 445	26,281	23,408	21,392	Amount	Order of Facto
2,660,657	2,583,338						6,000,539																								SubTotals	Schedule 1

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COS By Allocation Factors - In Ascending Order Ľ Š

33,151,095	33,151,095		CISTRE TOTAL
199,666	127,499	27	GRAND TOTAL
	12,101	_ 2	335.4 Hydrants
00,400	70 407	2	6016 Or Mn Hydrants Lab
38 130	35 479	20	Color Fower FO - Lakeview Tariff
	1,490	20	6153 DI Iroh Down Di I
	821	200	311.22 akeview Tariff
	040	3 (330.41 Lakeview Tariff
. 00,01	6/8	20	104.22 Lakeview lariff
153 074	139,029	19	304 22 Lakeview Teriff
	5,937	<u>.</u>	6152 Purch Dower Dil Lookand Marie 18
	4,090	5 6	311.22 Lookout Mtn
	4 000	10	330.42 LOOKOUT Mith
	3,484	19	330 A3 Lookout Mil
	826	<u>.</u>	330 41 Lookout Mtn
-10,490	1,100	ò	304.22 Lookout Mtn
13 400	414 297	1 8	Solos Necelpis Lax
	251,047	ō	685 Gross Dooring Too
	00,000	<u>.</u>	685 Franchise Taxes
	83 000	1 8	regulatory Commission Expenes
	56,538	18	SSS Doubleton
	JG.	; - -	685 PSC Fee
	010,022	ò	685 Filing Fee
	-818 522	&	Culer Revs
10.242 797	7,469,489	1/	
	2,110,508	ì -	On Income
	272 200	17	409 Federal and State Income Taxes
SubTotale	Amount	Factor	Account Description
ĭ	Order of Facto	III Ascending	Account Description of Factor

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COS - Summarized by Factor In Descending Order of Allocated Amount

Composition of Factor 17*

11 13 3 8 21 5 5 19 20 18	Fact 17 14 16 15 17 12 2 2 6
ယ္ထ	ctor Alli
643,778 569,859 450,284 304,399 214,395 199,666 194,107 168,672 153,074 38,438 -13,490 33,151,095	ocated Amo 10,242,797 6,000,539 2,660,657 2,583,338 2,388,192 1,615,974 1,449,817 1,449,817 1,353,893 1,165,435 767,271
78 34 35 36 36 37 37 37 37 37 37 37 37 37 37 37 37 37	Factor Allocated Amount Percent 17 10,242,797 30.9% 14 6,000,539 18.1% 16 2,660,657 8.0% 15 2,583,338 7.8% 1 2,388,192 7.2% 7 1,615,974 4.9% 12 1,449,817 4.4% 2 1,353,893 4.1% 6 1,165,435 3.5% 10 767,271 2.3%
1.9% 1.7% 1.4% 0.6% 0.6% 0.6% 0.5% 0.5% 0.1% 0.0%	t Percen 30.9% 18.1% 8.0% 7.8% 7.2% 4.4% 4.1% 3.5% 2.3%
	ent
93.1% 94.8% 96.2% 97.1% 97.8% 98.4% 99.0% 99.5% 100.0%	Cumulati Percen 30.9% 49.0% 57.0% 64.8% 72.0% 76.9% 81.3% 85.4% 88.9%
22	Cumulative Percent 30.9% 49.0% 57.0% 64.8% 72.0% 76.9% 81.3% 81.3% 85.4%
-> ^>	Factor
7 19 20 16 Accu *Sou	1 4 6 4 C C C C C C C C C C C C C C C C C
673,068 366,983 94,256 -14,708,959 87,270,579 Accuracy: 100% *Source: Cost of \$	Amount 38,922,4 17,338,5 8,243,2 7,945,7 7,867,0 7,398,2 4,915,1 4,134,2 4,080,3
673,068 366,983 94,256 ,708,959 ,270,579 /: 100% Cost of Se	mount 38,922,481 17,338,563 8,243,299 7,945,741 7,867,085 7,398,242 4,915,144 4,134,299 4,080,377
673,068 0.8% 0.2% 78,99 366,983 0.4% 0.1% 43,07 94,256 0.1% 0.0% 11,06 -14,708,959 -16.9% -5.2% -1,726,36 87,270,579 100.0% 30.9% 10,242,79 *Source: Cost of Service Study Schedule C Page 19 of 24	Percent 44.6% 19.9% 9.4% 9.1% 9.0% 8.5% 4.7%
udy s	
0.2% 0.1% 0.0% -5.2% 30.9% Schedule	Weight 13.8% 6.1% 2.9% 2.8% 2.8% 1.7% 1.7%
C Pag	Remai R
78,997 43,072 11,063 -1,726,365 10,242,797 e 19 of 24	Amount To Reallocate To Remaining Factors 4,568,264 2,034,997 967,502 932,578 923,346 868,319 576,882 485,236
78,997 43,072 11,063 26,365 42,797 of 24	nount To locate To locate To J Factors ,568,264 ,034,997 ,967,502 932,578 923,346 923,346 923,346 478,907

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COS By Factors When Factor 17 is Removed

Factor

Composition of Factor 16*

20 21

33,151,095

100%

19

3

15

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By Factors When Fa and 16 are Remove Allocated Amount Percent 2,388,192 7.2% 2,455,233 7.4% 2,820,215 8.5% 5,235,534 15.8% 724,907 2.2% 1,789,124 5.4% 1,712,513 5.2% 214,395 0.6% 168,672 0.5% 1,687,941 5.1% 1,578,548 4.8% 1,449,817 4.4% 450,284 1.4% 6,943,510 20.9% 6,943,510 20.9% 7.8% 0 0.0% 13,490 0.0% 199,983 0.6%		97.9%	0.2% 2.1% 100.0%	51,021 711,359 33,151,095	20 21
By Factors When Factors 17 and 16 are Removed Allocated Cumulative Amount Percent Percent 2,388,192 7.2% 7.2% 2,455,233 7.4% 14.6% 2,820,215 8.5% 23.1% 5,235,534 15.8% 38.9% 724,907 2.2% 41.1% 1,712,513 5.2% 51.7% 214,395 0.6% 52.3% 168,672 0.5% 52.8% 1,687,941 5.1% 57.9% 1,578,548 4.8% 62.7% 1,449,817 4.4% 67.0% 450,284 1.4% 68.4% 6,943,510 20.9% 89.3% 2,583,338 7.8% 97.1% 0 0.0% 97.1%		97.1% 97.7%	0.0% 0.6%	-13,490 199,983	19
By Factors When Factors 17 and 16 are Removed Allocated Cumulative Amount Percent Percent 2,388,192 7.2% 7.2% 2,455,233 7.4% 14.6% 2,820,215 8.5% 23.1% 5,235,534 15.8% 38.9% 724,907 2.2% 41.1% 1,789,124 5.4% 46.5% 1,712,513 5.2% 51.7% 214,395 0.6% 52.3% 168,672 0.5% 52.8% 1,578,548 4.8% 62.7% 1,449,817 4.4% 67.0% 450,284 1.4% 68.4% 6,943,510 20.9% 97.1% 0 0.0% 97.1%		97.1%	0.0%	0	3 7
By Factors When Factors 17 and 16 are Removed Allocated Cumulative Amount Percent Percent 2,388,192 7.2% 7.2% 2,455,233 7.4% 14.6% 2,820,215 8.5% 23.1% 5,235,534 15.8% 38.9% 724,907 2.2% 41.1% 1,789,124 5.4% 46.5% 1,712,513 5.2% 51.7% 214,395 0.6% 52.8% 1,687,941 5.1% 57.9% 1,687,941 5.1% 57.9% 1,578,548 4.8% 62.7% 1,449,817 4.4% 67.0% 450,284 1.4% 68.4% 6,943,510 20.9% 97.1%		97.1%	0.0%	0	16 16
By Factors When Factors 17 and 16 are Removed Allocated Cumulative Amount Percent Percent 2,388,192 7.2% 7.2% 2,455,233 7.4% 14.6% 2,820,215 8.5% 23.1% 5,235,534 15.8% 38.9% 724,907 2.2% 41.1% 1,789,124 5.4% 46.5% 1,712,513 5.2% 51.7% 214,395 0.6% 52.3% 168,672 0.5% 52.8% 1,687,941 5.1% 57.9% 1,578,548 4.8% 62.7% 1,449,817 4.4% 67.0% 450,284 1.4% 68.4% 6,943,510 20.9% 89.3%		97.1%	7.8%	2,583,338	15
By Factors When Factors 17 and 16 are Removed Allocated Cumulative Amount Percent Percent 2,388,192 7.2% 7.2% 2,455,233 7.4% 14.6% 2,820,215 8.5% 23.1% 5,235,534 15.8% 38.9% 724,907 2.2% 41.1% 1,712,513 5.2% 41.1% 1,712,513 5.2% 51.7% 214,395 0.6% 52.3% 168,672 0.5% 52.8% 1,687,941 5.1% 57.9% 1,578,548 4.8% 62.7% 1,449,817 4.4% 68.4%	Factor To R	89.3%	20.9%	6,943,510	14
By Factors When Fa and 16 are Remove Allocated Amount Percent 2,388,192 7.2% 2,455,233 7.4% 2,820,215 8.5% 5,235,534 15.8% 724,907 2.2% 1,789,124 5.4% 1,712,513 5.2% 1,712,513 5.2% 214,395 0.6% 168,672 0.5% 1,687,941 5.1% 1,578,548 4.8% 1,449,817 4.4%	Next Denon	68.4%	1.4%	450,284	13
By Factors When Fa and 16 are Remove Allocated Amount Percent 2,388,192 7.2% 2,455,233 7.4% 2,820,215 8.5% 5,235,534 15.8% 724,907 2.2% 1,712,513 5.2% 1,712,513 5.2% 214,395 0.6% 168,672 0.5% 1,687,941 5.1% 1,578,548 4.8%		67.0%	4.4%	1,449,817	12
By Factors When Faland 16 are Remove Allocated Amount Percent 2,388,192 7.2% 2,455,233 7.4% 2,820,215 8.5% 5,235,534 15.8% 724,907 2.2% 1,789,124 5.4% 1,712,513 5.2% 214,395 0.6% 168,672 0.5% 1,687,941 5.1%		62.7%	4.8%	1,578,548	; <u>-</u>
By Factors When Fa and 16 are Remove Allocated Amount Percent 2,388,192 7.2% 2,455,233 7.4% 2,820,215 8.5% 5,235,534 15.8% 5,235,534 15.8% 724,907 2.2% 1,789,124 5.4% 1,712,513 5.2% 214,395 0.6% 168,672 0.5%		57.9%	5.1%	1,687,941	10
By Factors When Fa and 16 are Remove Allocated Amount Percent 2,388,192 7.2% 2,455,233 7.4% 2,455,233 7.4% 2,820,215 8.5% 5,235,534 15.8% 724,907 2.2% 1,789,124 5.4% 1,712,513 5.2% 214,395 0.6%		52.8%	0.5%	168,672	9
By Factors When Fa and 16 are Remove Allocated Amount Percent 2,388,192 7.2% 2,455,233 7.4% 2,820,215 8.5% 5,235,534 15.8% 724,907 2.2% 1,789,124 5.4% 1,712,513 5.2%		52.3%	0.6%	214,395	0
By Factors When Fa and 16 are Remove Allocated Amount Percent 2,388,192 7.2% 2,455,233 7.4% 2,455,233 7.4% 2,820,215 8.5% 5,235,534 15.8% 724,907 2.2% 1,789,124 5.4%		51.7%	5.2%	1,712,513	7
By Factors When Faland 16 are Remove Allocated Amount Percent 2,388,192 7.2% 2,455,233 7.4% 2,820,215 8.5% 5,235,534 15.8% 724,907 2.2%		46.5%	5.4%	1,789,124	6
By Factors When Fa and 16 are Remove Allocated Amount Percent 2,388,192 7.2% 2,455,233 7.4% 2,820,215 8.5% 5,235,534 15.8%		41.1%	2.2%	724,907	Ċì
By Factors When Fa and 16 are Remove Allocated Amount Percent 2,388,192 7.2% 2,455,233 7.4% 2,820,215 8.5%		38.9%	15.8%	5,235,534	4
By Factors When Fa and 16 are Remove Allocated Amount Percent 2,388,192 7.2% 2,455,233 7.4%		23.1%	8.5%	2,820,215	ယ
By Factors When Fa and 16 are Remove Allocated Amount Percent 2,388,192 7.2%		14.6%	7.4%	2,455,233	2
By Factors When Fa and 16 are Remove Allocated Amount Percent		7.2%	7.2%	2,388,192	_
By Factors When Fa and 16 are Remove		Percent	Percent		Factor
		Cumulative		Allocated	l .
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		actors 17	s When F		cos

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Composition of Factor 14*

Water Treatment Expenses Power & Pumping Expenses Source of Supply & Maintenance Water Treatment Expenses Power & Pumping Expenses Power & Pumping Expenses Water Treatment Expenses	Factor 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Amount 130,151 1,343 167,848 59,612 51,775 51,349 26,787 16,998 15,946 14,802	Percent 2.2% 0.0% 2.8% 1.0% 0.9% 0.8% 0.4% 0.3% 0.3% 0.3%
Water Treatment Expenses Power & Pumping Expenses	V N	59,612	1.0%
Water Treatment Expenses Water Treatment Expenses	N N	51,775	0.9% 0.8%
Water Treatment Expenses	٥ N	26,787	0.4%
Water Treatment Expenses) N	16,998 15,046	0.3%
Water Treatment Expenses	0 N	15,946	0.3%
Water Treatment Expenses	N 1	339	0.2%
Water Treatment Expenses	2	119	0.0%
Water Treatment Expenses	1 N	36	0.0%
Water Treatment Expenses	n C	165	0.0%
Water Treatment Expenses	ט מ	114	0.0%
Source of Supply & Maintenance	ກ່ວ	183 560	13.4%
Source of Supply & Maintenance	တေ	2,685	0.0%
T&D Expenses	တ	643	0.0%
T&D Expenses	1 ග	40	0.0%
Power & Pumping Expenses	7 ~	539,714 477 510	8.9%
	7	413.068	6 8 % 8 %
Power & Pumping Expenses Power & Pimping Expenses	7	135,576	2.2%
Power & Pumping Expenses	7	26,861	0.4%
	o ~	5,594	0.1%
	O	114,014	1.9%

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	Customer Accting Expenses			Customer Accting Expenses				Customer Accting Expenses	T&D Expenses	I&D Expenses	Tap i	_ :		T&D Expenses	Description	ファント!! - !!														
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12	12	72	12	5 72	72	5 7	3 7	3 7	3 5	3 7	3 5	3 5	3 7	3 -	<u>.</u>	10	1	10	5 0	5 (c) (c	oα) () (0	o c	0 0	Σ	Factor	14
117	200	675	814	1,023	3,645	22,843	24,594	40,940	106,289	106,677	106 674	264,644	290,057	200,023	3/0 033	1 726	5,099	63,667	553,258	642	906	1,075	2692	F0 000	1,2/8	1,648	97,400	07 466	Amount	
0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.4%	0.4%	0.7%	1.8%	1.8%	4.3%	4.6%	4.8%	4.1%	0.0%	0.0%	0.1%	1.1%	9.1%	0.0%	0.0%	0.0%	0.9%	1.9%	0.0%	0.0%	7.6%	- 6.0011	Percent	

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Customer Accting Expenses *Source: Cost of Service Study Schedule C Page 18 of 24	Description
Schedule C Page 18 of 24	Fac
12 13 21	Factor
-439 448,685 1,599 72,167 6,046,822	Amount
0.0% 7.4% 0.0% 1.2% 100%	Percent

Composition of Factor 14* (Continued)

Reduce By Ratio: (6,023,964/ 6,046,822)*

	Acci																						
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70001acy-99% 0,040,822	0/ 6 0/6 000	75 .			,	450 282	1,139,3/1	240,023	2/0	623.750	108,672	7 50 7	214	1,000,00	1 500	993,644	í. N		405,61	101,49	3	Amount	
277		167	0	C	1	284	3/1	020	0 (750	2/0	040	395	700	ა ა	644	617	200	611	494	2	nt	
6,0) ~	4			1	<u>,</u>	 	22		ઝ	16	. 1	Ņ	<u> </u>	<u>.</u>	ထွ			4		<u>.</u>		Amou
6,023,964	/ 1,894		0	C	700,04	20 Y	1,135,062	247,882	7,000	300	168,034	, ,	3 585	1,592,290		989 888	2/8	010	404 078	130,997) :	<u>о</u>	Amount Reduced
T							42	٦					-	C	`						•		luced
100.0%	1.2%	0.0%	0.0%	0.0%	1.4%	10.0	18.8%	4.1%	10.0%	1000	2.8%	0.0%	2 FO/	26.4%	7.4.0	16 40/	0.0%	0.7 /0	6 70/	2.2%	ייייייייייייייייייייייייייייייייייייייי	Percent	
100.0% 20.9% 6,943,644	0.2%	0.0%	000	0.0%	1.6%		3 0%	0.9%	2.2%	0 1	0.6%	0.7%	707 0	5.5%	J.4%	3 40/	0.0%	1.4%	1 10/	0.5%	Meight	\\/\?i~b+	
6,943,6	82,870				517,067	1,000,000	1 200	285.727	/16,260	1 . ()	193 688	246,193	. ;	1.835.385	1,141,01	, ,		465,768	2 (150.996	Reallocate		Amount To
344	370	C	•	>	067	CCC	א ה	727	260		688	193	0 0	385	014		330	,/68	100	996	are		+ - -

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ω	2	20	19		17	16 16	15	4	<u>.</u>	12	; <u>-</u>	10	9	· œ	• ~	ı ග	ر د د	4 1	ω	2	· · -	Factor		a	Facto	Com	
33,151,229	794,230	51,021	199,983	-13,490	0	0	2,583,338	С	967,351	2,758,172	1,864,274	2,404,202	362,360	460,588	3,547,898	930	725,227	5,235,534	2,820,215	2,921,002	2,539,188	Amount	Allocated		Factors When I	Composition of	
100.0%	2.4%	0.2%	0.6%	0.0%	0.0%	0.0%	7.8%	0.0%	2.9%	8.3%	5.6%	7.3%	1.1%	1.4%	10.7%	8.8%	2.2%	15.8%	8.5%	8.8%	7.7%	Percent		14 Are Rer	Factor 16, Factor	Cost-of-Service	
0.0	10 0%	8 5%	8.4%	7.8%	7.8%	7.8%	7.8%	3.0.6	80.6%	77.7%	69.4%	63.7%	56.5%	55.4%	54.0%	43.3%	34.5%	32.3%	25.0%	16.5%	7.7%	Percent	Cumulative	Removed		ervice By	

Next Dependent Factor To Remove

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	*Source: (Total Labor	Labor	Labor	Labor	Labor	Labor	Labor	Labor	Labor	Labor	Labor	Labor	Labor	Labor	Labor	Labor	Labor	Labor	Labor	Labor	Labor	Labor	Descrip						
,	*Source: Cost of Service Study Schedule C Page 18 of 24		Labor in Factor 9	Labor in Factor 8	Labor in Factor 8	Labor in Factor 8	Contracts & orders Labor	Meter Reading Labor	Or Mn Other T&D Plant Lab	Or Mn Hydrants Lab	Or Mn Meters Lab	Or Mn Services Lab	Or Mn T&D Mains Lab	Maps and Records Labor	Misc Meter Labor	Storage Facilities labor	General Wt Lab	Labor Oper PU	Storage Facilities labor	Source of supply -Operating Labor	Labor Source		Estimated Composition							
JO 10 01 24	18 of 3/									6017	6017	6016	6016	6016	6016	6016	6015	6015	6015	6013	6011		6011	Account		Compositio				
		ď	o w	9 (0 0) م	00 (00 (∞ i	3 z	ਹ ੇ 4	0 !	2 -	3 :	<u>-</u>	7	7	10	n ro	v (o	ומ	ractor 2			ň				
Accuracy=94%	5,387,190	72,167	63,667	240,823	10,000	113 060	117,018	477 E10	553 350	200,051	449 695	2,107	73,467	63 667	348 833	113,060	477.519	553 258	110	36	807,746	100	Amount 4							(
~	100.0%	1.3%	1.2%	4.6%	1.1%	1.0%	8.9%	0.3%	5.4%	8.3%	0.0%	1.3%	1.2%	4.6%	1.1%	0.8%	80%	10.0%	0.0%	5.0%	3.4%	0.0%								nonsoding
	5,066,664	67,873	59,879	234,019	388,491	107	449,108	520,340	272,794	421,989	852	67,873	59,879	234,019	388,491	449,708	520,340	707	34	759,659	171,698	4	Reduced To: Weights	Amount		5,387,190)	Kallo:	Reduce By		Compostion of Factor 15
	7.8%	0%	0%	%	1%	0%	1%	1%	0%	1%	0%	0%	0%	0%	1%	1%	1%	0%	0%	1%	0%	0%	Weights							Ch
			3	12	1	10	10	9	9	9	9	9	œ	œ	œ	7	7	0	6	σ ı	Ν	N	By Factor	In Order	Arranged					
	2,583,338	34.606	215 150	139 089	119.319	30,530	265,306	34,606	30,530	119,319	198,080	434	55	228,986	265,306	198,080	228,986	387,327	87,544	55	17	N		Allocated	>					
	,000,100	2 583 283	34 606	215 150	139 089	119.319	295.836		382,970						494.292		427,066	,	474,871		55 c	10	By Factor Factor	Subtotal						
											_ :	2 5	i û	3 :	≟ ₹	1 10	9	∞ ·	7	ာ (יו דט	s	Factor		Final Su					
										2,000,200	2 583 200	24.606	345 450	130,000	110 310	307,070	382,970	494 292	427.066	474 874 00	7 G		ReAllocate		Final Summary of Factor 15					
										,00%	100%	0.3%	0.4%	4.6%	11.5%	14.0%	14.8%	10.5%	16.5%	18 48/	0.0%	2			actor 15					

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Composition of Cost-of-Service By Factors When Factor 16, Factor 17, Factor 14 and Factor 15 are Removed Allocated Cumulative Factor Amount SubTotals Percent
Composition of Cost-of-Service By Factors When Factor 16, Factor 17, Factor 14 and Factor 15 are Removed Allocated Cumulative Factor Amount SubTotals Percent

														Factors To Remove	Next Dependent						
		0.5	9	<u> </u>	5 7	9 0	3 3	14		7.	; <u>1</u>	6	9	<u>∞</u>	, ·	ıσ	ۍ د	4 1	ယ	· N	_
33,151,175	828,836	51,021	199,983	-13,490	0	0	0	0	1,182,510	2,897,261	1,983,593	2,700,038	745,331	954,880	3,974,964	3,405,009	725,282	5,235,534	2,820,215	2,921,021	2,539,188
100.0%	2.5%	0.2%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	3.6%	8.7%	6.0%	8.1%	2.2%	2.9%	12.0%	10.3%	2.2%	15.8%	8.5%	8.8%	7.7%
	100.0%	97.5%	97.3%	96.7%	96.8%	96.8%	96.8%	96.8%	96.8%	93.2%	84.5%	78.5%	70.3%	68.1%	65.2%	53.2%	43.0%	40.8%	25.0%	16.5%	7.7%

954,880	100%	1,030,891	Accuracy = 100%
442,310	46%	477,519	1000
512,464	54%	553,258	70
106	0%	114	, 5 5
			Factor
		Composition of Factor 8	Compositi
ĺ			
745,331	100%	797,725	Accuracy = 100%
67,427	9%	72,107	A
00,100	2 ;	70 167	21
59 485	8 %	63,667	10
232,480	31%	248,823	
000,900	6	2000	<u>.</u>
385 030	52%	413.068	7
			Factor
Reallocate		Composition of Factor 9	Composi
Allount 10		• !	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			

17. Factor 14, Factor 15, Factor 8 and Factor 9 are Removed

Allocated Factor Amount

Percent

Cumulative Percent

	Next Dependent Factors To Remove
9 0 9 0 10 3,271,988 11 2,216,074 12 2,897,261 13 1,182,510 0 15 0 16 0 17 0 18 -13,490 19 199,983 20 51,021 21 828,836 33,151,175	1 2,606,615 2 2,921,021 3 2,820,215 4 5,235,534 5 725,387 6 3,405,009 7 4,803,212
0.0% 0.0% 9.9% 6.7% 8.7% 3.6% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	7.9% 8.8% 8.5% 15.8% 2.2% 10.3%
67.9% 67.9% 77.8% 84.5% 93.2% 96.8% 96.8% 96.8% 96.8% 97.3% 97.3%	7.9% 16.7% 25.2% 41.0% 43.2% 53.4% 67.9%

=0.2200*Factor 2 =0.7001*Factor 3 =0.0799*Factor 4 Accuracy = 100%	Composition of Factor 6	=0.1734*Factor 3 =0.8266*Factor 4 Accuracy = 100%	Composition of Factor 7
749,102 2,383,847 272,060 3,405,009		Amount To Reallocate 832,877 3,970,335 4,803,212	

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Composition of Cost-of-Service By Factors When Factor 16, Factor 17, Factor 14, Factor 15, Factor 8, Factor 9, Factor 6 and Factor 7 Are Removed

Factor Amount Percent Percent Amount Amount 1 2,606,615 7.9% 7.9% 2,606,615 2 3,670,123 11.1% 12.313,677 4 9,477,929 28.6% 65.7% 21,791,607 5 725,387 2.2% 67.9% 22,516,994 6 0 0.0% 67.9% 22,516,994 7 0 0.0% 67.9% 22,516,994 8 0 0.0% 67.9% 22,516,994 11 2,216,074 6.7% 32,71,986 9.9% 77.8% 25,516,994 11 2,216,074 6.7% 84.2% 25,788,992 11 2,2897,261 8.7% 93.2% 30,902,316 12 2,897,261 8.7% 93.2% 30,902,316 13 1,182,510 3.6% 96.8% 32,084,827 14 0 0.0% 96.8% 32,084,827 15 0 0.0% 96.8% 32,084,827 16 0 0.0% 96.8% 32,084,827 17 0 0.0% 96.8% 32,084,827 18 -13,490 0.0% 96.8% 32,084,827 19 199,983 0.6% 97.5% 32,21,320 20 51,021 0.2% 97.5% 32,2340 21 828,836 2.5% 100.0% 33,151,176																		
Amount Percent Percent Amount 5 7.9% 7.9% 2,606,615 11.1% 18.9% 6,276,738 11.2% 37.1% 12,313,677 9 28.6% 65.7% 21,791,607 7 2.2% 67.9% 22,516,994 0.0% 67.9% 22,516,994 0.0% 67.9% 22,516,994 0.0% 67.9% 22,516,994 0.0% 67.9% 22,516,994 0.0% 67.9% 22,516,994 0.0% 67.9% 22,516,994 0.0% 67.9% 32,084,827 0.0% 96.8% 32,084,827 0.0% 96	21 22	3 19 E	17	1 15	14 3 4	5 72	<u> </u>	-	ο α	o ~	1 0) С І	4	. w	· N) - -	Factor	
Amount Allocated By Percent Amount Allocated By 7.9% 2,606,615 6 7.9% 6,276,738 7.1% 12,313,677 65.7% 21,791,607 67.9% 22,516,994 67.9% 22,516,994 67.9% 22,516,994 67.9% 22,516,994 67.9% 22,516,994 67.9% 22,516,994 67.9% 22,516,994 67.9% 22,516,994 67.9% 22,516,994 67.9% 22,516,994 67.9% 22,516,994 67.9% 22,516,994 67.9% 22,516,994 67.9% 22,516,994 67.9% 22,516,994 67.9% 23,084,827 96.8% 32,084,827 96.8% 32,084,827 96.8% 32,084,827 96.8% 32,084,827 96.8% 32,084,827 96.8% 32,084,827 96.7% 32,084,827 96.7% 32,084,827 96.8% 32,084,827 96.8% 32,084,827 96.7% 32,084,827 96.8% 32,08	31,021 828,836 33,151,176	-13,490 199,983		00	1,182,510 0	2,897,261	2,216,074	3.271.988	0	0	0	725,387	9,477,929	6,036,939	3,670,123	2,606,615	Allocated Amount	
Amount Allocated By Cumulative Amount Amount Allocated By Amount Max Day and All Max Hour Ave 2,606,615 0 6,276,738 1,101,037 12,313,677 21,791,607 21,791,607 22,516,994 22,516,994 22,516,994 22,516,994 22,516,994 22,516,994 22,516,994 22,516,994 22,516,994 22,516,994 22,516,994 22,516,994 22,516,994 32,084,827	2.5% 100.0%	0.0%	0.0%	0.0%	3.6% 0.0%	8.7%	6.7%	90%	0.0%	0.0%	0.0%	2.2%	28.6%	18.2%	11.1%	7.9%	Percent	
Amount Allocated By Max Day and Alli Max Hour Ave 15 0 1,101,037 1,811,082 4,738,965 7,651,083 1 Allocated by Judgment and o of-state demand studies not in the fecord. record.	97.5% 100.0%	96.7% 97.3%	96.8% 96.8%	96.8%	96.8% 96.8%	93.2%	84.5%	67.9% 77.8%	67.9%	67.9%	67.9%	67.9%	65.7%	37.1%	18.9%	7.9%	Cumulative Percent	
Amount Allocated By Max Day and Allow Max Hour Ave 0 1,101,037 1,811,082 4,738,965 7,651,083 Allocated by judgment and o of-state demand studies not in the record.	32,322,340 33,151,176	32,071,337 32,271,320	32,084,827 32,084,827	32,084,827	32,084,827	30,902,316	28,700,982	22,516,994	22,516,994	22,516,994	22,516,994	21,791,607 22,516,994	21,791,607	12,313,677	6,276,738	2,606,615	Cumulative Amount	
All Ave												11						
1 By 615,086,086						record.	studies not in the	of-state demand	judgment and out-	Allocated by				•	•	٦		

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CERTIFICATE OF SERVICE

I hereby certify that a true and exact copy of the foregoing has been forwarded by first-class mail, postage prepaid on June 23, 2003, to the following:

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Assistant Attorney General

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